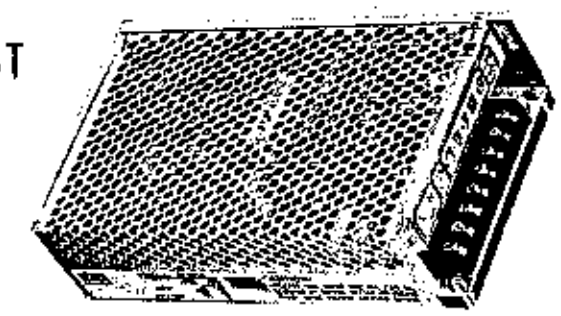
MEAN WELL SWITCHING POWER SUPPLY

D-120 SERIES

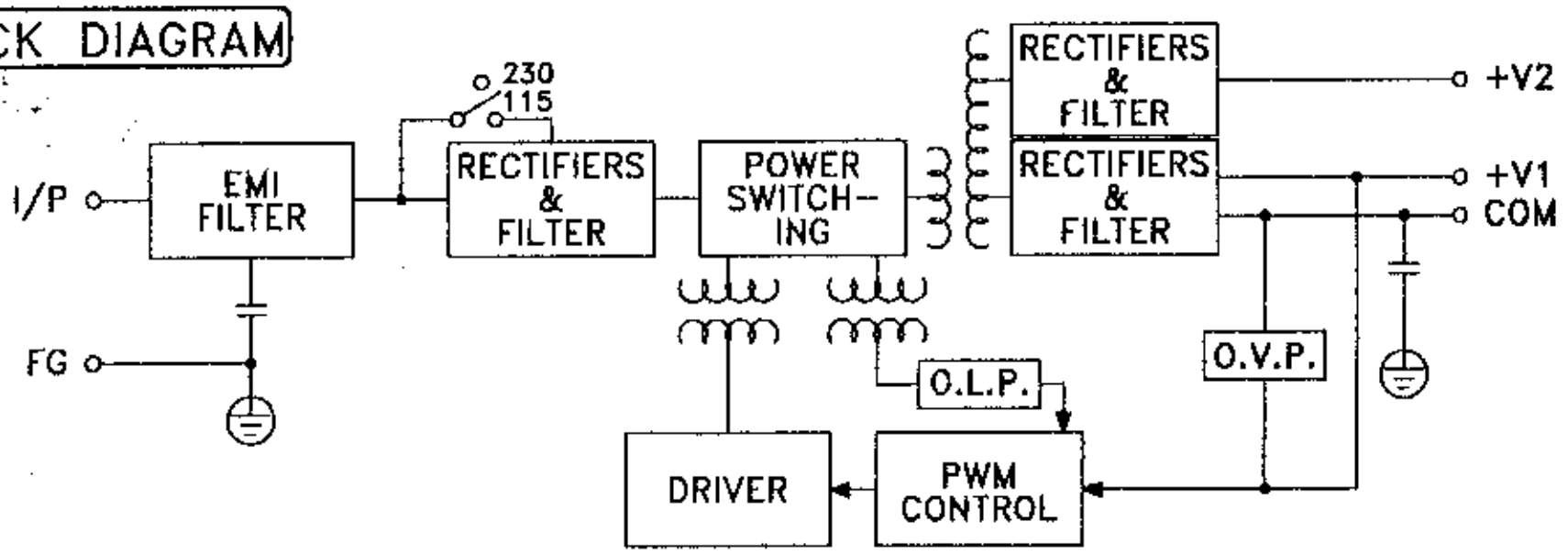
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST



MODEL / SPECIFICATION	D-120A		D-120B	
	CH1	CH2	CH1	CH2
DC OUTPUT VOLTAGE	5V	12V	5V	24V
OUTPUT V. TOLERANCE	±2%	±6%	±2%	±7%
OUTPUT RATED CURRENT	12A	5A	6A	4A
OUTPUT CURRENT RANGE	2-12A	0.5-5A	2-10A	0.4-4A
RIPPLE & NOISE (p-p)	60mVp-p	120mVp-p	60mVp-p	150mVp-p
LINE REGULATION	±0.5%	±1%	±0.5%	±1%
LOAD REGULATION	±0.5%	±5%	±0.5%	±6%
DC OUTPUT POWER	120W		126W	
EFFICIENCY	78%		80%	
DC VOLTAGE ADJ.	CH1:+10,-5%		CH1:+10,-5%	
INPUT VOLTAGE RANGE	88～132VAC / 176～264VAC SELECTED BY SWITCH			
INPUT FREQUENCY	47～63Hz			
AC CURRENT	2.5A/115V 1.25A/230V			
INRUSH CURRENT	COLD START 30A			
OVERLOAD PROTECTION	105%～135% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:RE-POWER ON			
OVER V. PROTECTION	CH1:5.75V～6.75V			
OVER TEMP. PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / ℃ ON +5V OUTPUT			
SETUP,RISE,HOLD UP TIME	200ms, 50ms, 20ms			
WITHSTAND VOLTAGE	I/P-O/P:3KV(NOTE:7) I/P-FG:1.5KV O/P-FG:0.5KV 1min.			
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)			
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH			
DIMENSION	199*110*50mm CASE:906			
WEIGHT	0.65Kgs			
SAFETY	UL1012, EN60950 PENDING			
EMC	CISPR22 (EN55022) CLASS B, IEC801-2,3,4, IEC555-2 PENDING			

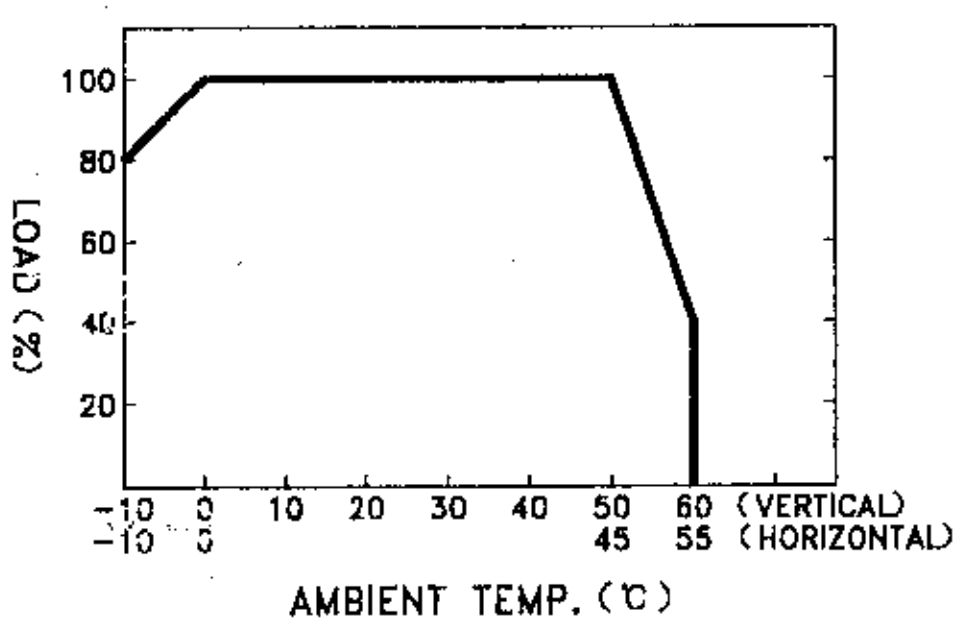
NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION, CROSS REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM MIN. LOAD TO 100% RATED LOAD, AND ALL OTHER OUTPUTS AT 60% RATED LOAD.
6. EACH OUTPUT PROVIDE UP TO MAXIMUN CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX OUTPUT POWER.
7. C2,3,11 MUST BE REMOVED.

BLOCK DIAGRAM

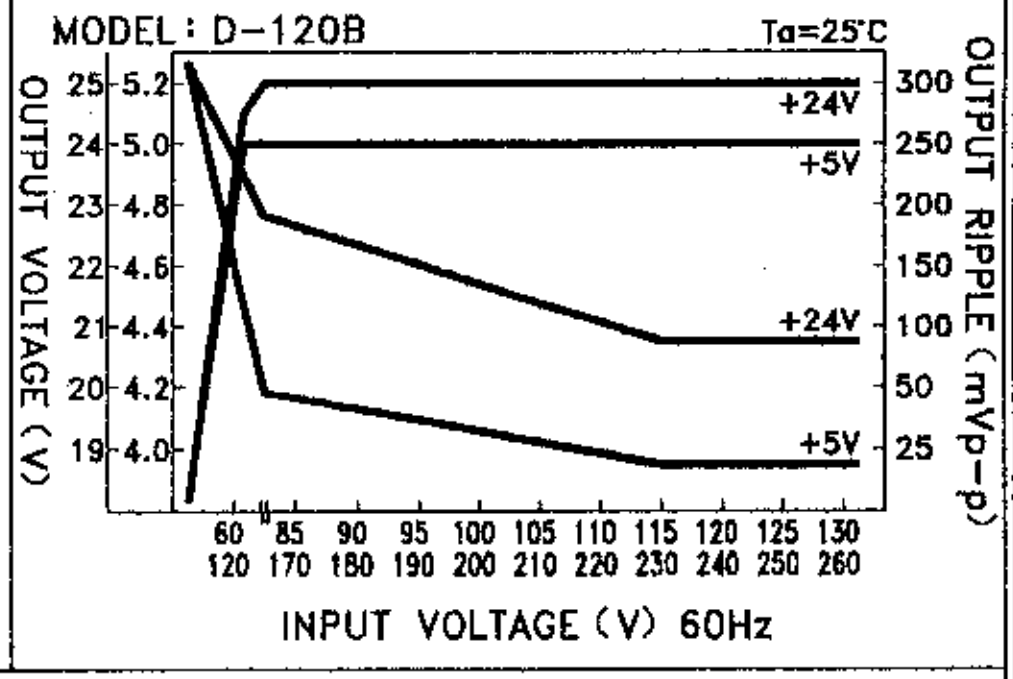


fosc : 28KHz

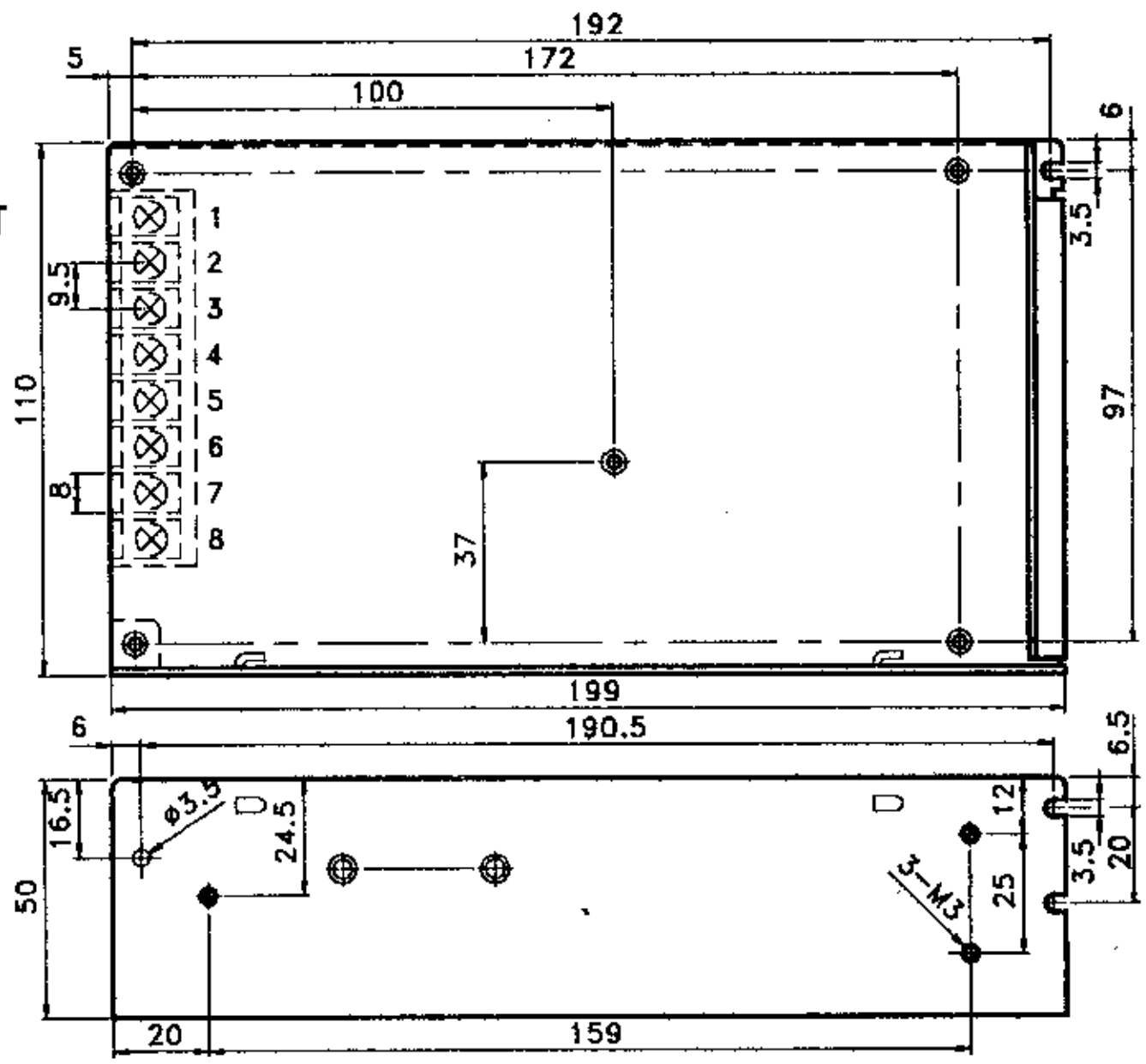
OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)



- CASE : 906
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4 : DC OUTPUT +V2
  - PIN 5,6 : DC OUTPUT COM
  - PIN 7,8 : DC OUTPUT +V1